



Figure e-1: Evaluation of *SAMD9L* variants. HEK-293T cell transfectants were treated with doxycycline for 24 hours, as indicated. (A) Western blot of *SAMD9L* variant expression with actin used as a loading control. (B) Flow cytometry plots showing DNA synthesis via Edu incorporation versus total cellular DNA stained with Fx Cycle Violet. The frequency of gated Edu^{high} cells, representing cells in S-phase, is indicated. Plots from one representative experiment are shown (C) Quantification of Edu^{high} cells in different HEK-293T cell transfectants. Circles represent values from six independent experiments. A *SAMD9L* p.H880Q gain-of-function transfectant was added as a positive control (Ref. 3). Student's two-tailed *t*-test applied. **** indicate $p < 0.0001$.